

**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: DAVID GUZO Examiner #: 70677 Date: 2/25/05  
 Art Unit: 1636 Phone Number 302-272-0767 Serial Number: 10/613106  
 Mail Box and Bldg/Rm Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please run a regular plus interference sequence search on SEQ ID NO: 1 and 4.

1 -MA- 986  
4 -MA - 2144

CRFE

Thanks

MEJ'

Arnold 22532  
3/1/05 - 3/19/05

\*\*\*\*\*  
**STAFF USE ONLY**

Type of Search

Vendors and cost where applicable

Searcher:

NA Sequence (#)

STN

GenCore version 5.1.6  
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## OM nucleic - nucleic search, using sw model

Run on: March 8, 2005, 13:21:02 ; Search time 4143.41 Seconds

(without alignments)  
1530.816 Million cell updates/sec

Title: US-10-613-106-1

Perfect score: 986

Sequence: 1 atgagacatattatctggcca.....gtaaacggccaggccataa 986

Scoring table: IDENTITY\_NUC

GapOp 10.0 , Gapext 1.0

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

## Database :

1: GenBank: \*  
 2: gb\_ba: \*  
 3: gb\_btg: \*  
 4: gb\_cm: \*  
 5: gb\_cv: \*  
 6: gb\_dxat: \*  
 7: gb\_ph: \*  
 8: gb\_Pl: \*  
 9: gb\_Pri: \*  
 10: gb\_ro: \*  
 11: gb\_sts: \*  
 12: gb\_xy: \*  
 13: gb\_un: \*  
 14: gb\_vir: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## ALIGNMENTS

RESULT	1	AR016484	AR016484	AR016484	Sequence 1 from patent US 5776743.	1000 bp	DNA	linear	PAT 05-DEC-1998
LOCUS		DEFINITION	Sequence 1 from patent US 5776743.	ACCESSION	AR016484	VERSION	AR016484.1	KEYWORDS	GI:3972761
SOURCE		ORGANISM	Unknown.	REFERENCE	Unclassified.	FEATURES	1 (bases 1 to 1000)	AUTHORS	Frisch,S.M.
JOURNAL		TITLE	Method of sensitizing tumor cells with adenovirus E1A	PATENT	US 5776743-A 1 07-JUL-1998;	PATENT	Location/Qualifiers	SOURCE	1..1000
/organism="unknown"									
/mol_type="unassigned DNA"									
ORIGIN		Query	Match	Length	DB	ID	Description		
No.	Score	Match Length	DB	ID					
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2	986	100.0	1000	6	AR016485	AR016485 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
3	986	100.0	1000	6	AR031949	AR031949 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
4	986	100.0	1000	6	AR031950	AR031950 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
5	986	100.0	1000	6	I20734	Sequence 1	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
6	986	100.0	1000	6	I20735	Sequence 3	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
7	986	100.0	1000	6	AR0304631	AR0304631 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
8	986	100.0	1000	6	AR0304632	AR0304632 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
9	986	100.0	1055	14	AY147066	AY147066 Human ade	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Qy
10	986	100.0	1802	6	AX817767	AX817767 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Qy
11	986	100.0	1802	6	AX838364	AX838364 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
12	986	100.0	3409	6	AX770195	AX770195 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
13	986	100.0	3090	6	AR31052	AR31052 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Qy
14	986	100.0	3090	6	AX150263	AX150263 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Qy
15	986	100.0	7607	6	BD26237	BD26237 Adenoviru	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
16	986	100.0	11152	6	BD26209	BD26209 Adenoviru	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Db
17	986	100.0	11152	6	AX356041	AX356041 Sequence	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Qy
18	986	100.0	11152	6	BD21940	BD21940 Packaging	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Qy
19	986	100.0	11570	14	AD5001	AD5001	1 ATGAGACATATTATCTGGCAAGGGGTATACCGAAGAAATGCCGCAGCTTG	69	Qy

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BD268211 Adenoviru  
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BD021943 Packaging  
CQ854904 Sequence  
CQ854905 Sequence  
CQ854906 Sequence  
AX084506 Sequence  
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AR102226 Sequence  
AR11613 Sequence  
CQ854907 Sequence  
AX2230724 Sequence  
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AR403723 Sequence  
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28 986 100.0 35934 14 AX339665  
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33 986 100.0 35935 6 AR230724  
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36 986 100.0 35935 14 ADRCOMPEN  
37 986 100.0 35978 6 AR03723  
38 950.2 96.4 986 14 AX490818  
39 949.2 96.3 1356 6 I3051  
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41 949.2 96.3 1356 6 I43358  
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		Matches	986; Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;																																																																																		
Db	250 CTCACATTCCGCCGCGCCCGCTTCTCCGGAGCCGCCTCACCTTCCGGCGCCCGAG 309	QY	1 ATGAGACATATMTCGCCAACGGAGGTATTACCGNAGAATGGCCCGCAGTCCTTG 60	Db	10 ATGAGACATATATCTGCCAACCGAGGTTATTACCGNAGAATGGCCCGCAGTCCTTG 69	QY	61 GACCACTGATCCAGAGGACTGCTGATTAATCTCCACCTGAGAGGGTGAACCA 120	Db	70 GACCACTGATCCAGAGGACTGCTGATTAATCTCCACCTGAGAGGGTGAACCA 129	QY	121 CCTACCCCTACGAACTGATGTTAGAATGAGGAGATCCACAGGAGG 180	Db	130 CCTACCCCTACGAACTGATGTTAGAATGAGGAGATCCACAGGAGG 189	QY	181 GCGGTTCCAGATTCCCGACTCTGTAATGTTGCGTCAGAGATCCACAGGAGG 240	Db	190 GCGGTTCCAGATTCCCGACTCTGTAATGTTGCGTCAGAGATCCACAGGAGG 249	QY	241 CTCACTTTCGGCGGCCCGGCTTCGGGACCCGCTTCTGGGAGGGTTGACTA 300	Db	250 CTCACTTTCGGCGGCCCGGCTTCGGGACCCGCTTCTGGGAGGGTTGACTA 309	QY	301 GAGCTTACCGCCATTAACCGGTGCTGAACTGAGCTGAGCCAGACCTCTGCA 360	Db	310 GAGCTTACCGCCATTAACCGGTGCTGAACTGAGCTGAGCCAGACCTCTGCA 369	QY	361 GAGCTTACCGCCAGAGGCTTGSGTCGCGCTTATGCAAACCTGTACGGAGGTGATC 360	Db	370 GATCTTACCTGCCAGAGGCTGCTTACCCGAGCAGAACCGGAGCTGCA 369	QY	421 GAGTTGTTAGTAAATTTCAGTTGCTGTTGCTTAAAGAAATTGTTGATT 650	Db	430 GAGTTGTTAGTAAATTTCAGTTGCTGTTGCTTAAAGAAATTGTTGATT 659	QY	601 TTAAAGGCTCTGCTGCTGAACTGAGCTGAGCCGAGACCCGAGCTGCA 720	Db	610 TTAAAGGCTCTGCTGCTGAACTGAGCTGAGCCGAGACCCGAGCTGCA 729	QY	661 TTAAAGGCTCTGCTGCTGAACTGAGCTGAGCCGAGACCCGAGCTGCA 720	Db	670 TTAAAGGCTCTGCTGCTGAACTGAGCTGAGCCGAGACCCGAGCTGCA 729	QY	721 GACCTACCCGGCTCTAAATGGCGCTGCTGAGCTGAGCCGAGACCCGAGCTGCA 780	Db	730 GACCTACCCGGCTCTAAATGGCGCTGCTGAGCTGAGCCGAGACCCGAGCTGCA 789	QY	781 CTAGACATATGAACTGAGCTGAGCTGAGCTGAGCCGAGACCCGAGCTGCA 840	Db	790 CTAGACATATGAACTGAGCTGAGCTGAGCTGAGCCGAGACCCGAGCTGCA 849	QY	841 AGATCACCCGGTGGPCCCGTGTGCCCATTAACCGCTGCGCTGAGTTGCGSC 900	Db	850 AGATACACCGGGTGGCCCATTAACCGCTGCGCTGAGTTGCGSC 909	QY	901 GTGCCAGGTCTGGATGATGAGACTGCTAACGACCTGGCAACCTTGGACT 960	Db	910 GTGCCAGGTCTGGATGATGAGACTGCTAACGACCTGGCAACCTTGGACT 969	QY	961 TGAAGCTTAAGCCCCAGGCCATAA 986	Db	970 TGAAGCTTAAGCCCCAGGCCATAA 995	RESULT 2	AR016485 AR016485 1000 bp DNA linear PAT 05-DEC-1198	REFERENCE 1 (bases 1 to 1000)	AUTHORS Fisch, S.M.	TITLE Method of sensitizing tumor cells with adenovirus E1A	VERSION AR016485.1 GI:3972762	KEYWORDS JOURNAL Patent: US 5776743-A 3 07-JUL-1998; Location:Qualifiers 1. .1000 /organism="unknown" /mol-type="unassigned DNA"	SOURCE	ORGANISM Unknown. Unclassified.	Db	721 GACCTACCCGGCTCTAAATGGCGCTGCTGAGCTGAGCCGAGACCCGAGCTGCA 729	QY	730 GACCTACCCGGCTCTAAATGGCGCTGCTGAGCTGAGCCGAGACCCGAGCTGCA 729	Db	781 CTAGACATATGAACTGAGCTGAGCTGAGCCGAGACCCGAGCTGCA 789	QY	790 CTAGACATATGAACTGAGCTGAGCCGAGACCCGAGCTGCA 789	Db	841 AGATACACCGGGTGGCCCATTAACCGCTGCGCTGAGTTGCGSC 900	QY	850 AGATACACCGGGTGGCCCATTAACCGCTGCGCTGAGTTGCGSC 909	Db	901 GTGCCAGGTCTGGATGATGAGACTGCTAACGACCTGGCAACCTTGGACT 960	QY	910 GTGCCAGGTCTGGATGATGAGACTGCTAACGACCTGGCAACCTTGGACT 969	Db	961 TGAAGCTTAAGCCCCAGGCCATAA 986	QY	970 TGAAGCTTAAGCCCCAGGCCATAA 995	RESULT 3	AR031949

Locus AR031949 Sequence 1 from patent US 5866550. DNA linear PAT 29-SEP-1999

Definition AR031949.1 GI:5946238

Accession AR031949 Version 1

Keywords Unknown

Source Unassigned

Organism Unclassified

Reference 1 (bases 1 to 1000)

Authors Frisch, S.M.

Title Method of inhibiting replication of hyperproliferative cells using a nucleic acid encoding EIA

Journal Patent: US 5866550-A 1 02-BB-1999;

Features Location/Qualifiers 1..1000 /organism="unknown" /mol\_type="unassigned DNA"

Origin

Query Match 100.0%; Score 986; DB 6; Length 1000;

Best Local Similarity 100.0%; Pred. No. 1e-263; Mismatches 0; Indels 0; Gaps 0;

Matches 986; Conservative 0; MisMatches 0; Del 0; Insert 0;

Qy 1 ATGAGACATATTATCTGCCACGGAGCTGTATTACCGAAGAAATGCCGCCAGCTTTC 60

Db 10 ATGAGACATATTATCTGCCACGGAGCTGTATTACCGAAGAAATGCCGCCAGCTTTC 69

Qy 61 GACCACTGATGAGAGGAGCTGGTGAATCTCCACTCCAGGATTTGACCA 120

Db 70 GACCACTGATGAGAGGAGCTGGTGAATCTCCACTCCAGGATTTGACCA 129

Qy 121 OCTACCCCTCGCGAACAGTGATGATTGACCG3CCCAGATCCACAGGAG 180

Db 130 OCTACCCCTCGCGAACAGTGATGATTGACCG3CCCAGATCCACAGGAG 189

Qy 181 CGGTTTTCGCGAGTTTCCGACTCTGTGATGTTGAGGGCGAGAAGGATTGACTA 240

Db 190 GGGGTTTCGCGAGTTTCCGACTCTGTGATGTTGAGGGCGAGAAGGATTGACTA 249

Qy 241 CTCACTTTGCCGCGCGCGCGGTTCTCGCGAGGCCCTACCTTCCCGCAGCCGAG 300

Db 250 CTCACTTTGCCGCGCGCGGTTCTCGCGAGGCCCTACCTTCCCGCAGCCGAG 309

Qy 301 CAGCCGAGCGAGAGCCCTGGCTCGGTTCTATGCCAACCTGTACGGAGGTGTC 360

Db 310 CAGCCGAGCGAGAGCCCTGGCTCGGTTCTATGCCAACCTGTACGGAGGTGTC 369

Qy 361 GATCTTACCTGCCACGGGCTGGCTTGACCCAGCTGACGGAGGTGAGAGGTGAG 420

Db 370 GATCTTACCTGCCACGGGCTGGCTTGACCCAGCTGACGGAGGTGAGAGGTGAG 429

Qy 421 GAGTTGTTGTTAGATGATGTTGAGCACCCGGCAGGGTGCAGCTCTCATATCAC 480

Db 430 GAGTTGTTGTTAGATGATGTTGAGCACCCGGCAGGGTGCAGCTCTCATATCAC 489

Qy 481 CGGAGGAGTACGGGGACCGATATTATGTTGCTCTTATATGAGGACCTGTGCG 540

Db 490 CGGAGGAGTACGGGGACCGATATTATGTTGCTCTTATATGAGGACCTGTGCG 549

Qy 541 ATGTTGTCAGTCACTGAGTAATTATGGCAGTGGTGTAGTAGAGTGGTGGTTGGT 600

Db 550 ATGTTGTCAGTCACTGAGTAATTATGGCAGTGGTGTAGTAGAGTGGTGGTTGGT 609

Qy 601 TGTGTAATTTTTAAATTATGAGTTTACAGTTGTTGAGTAATTGTGTTGGTATT 660

Db 610 TGTGTAATTTTTAAATTATGAGTTTACAGTTGTTGAGTAATTGTGTTGGTATT 669

Qy 661 TTAAAGGTTCTGTCAGCTGAGCTGAGCTGAGCCGAGCCGAGCCGAGCTGCAA 720

Db 670 TTAAAGGTTCTGTCAGCTGAGCTGAGCCGAGCCGAGCCGAGCTGCAA 729

Qy 721 GACCTTCCGGCTCTTAATGGCCCTGTTCTGAGCGCCGAGCTACCTGTGCT 780

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RESULT 4 AR031950 Sequence 3 from patent US 5866550. DNA linear PAT 29-SEP-1999

Definition AR031950 Version 1 GI:5946239

Accession AR031950.1

Keywords Unknown

Source Unclassified

Organism Unclassified

Reference 1 (bases 1 to 1000)

Authors Frisch, S.M.

Title Method of inhibiting replication of hyperproliferative cells using a nucleic acid encoding EIA

Journal Patent: US 5866550-A 3 02-FEB-1999;

Features Location/Qualifiers 1..1000 /organism="unknown" /mol\_type="unassigned DNA"

Origin

Query Match 100.0%; Score 986; DB 6; Length 1000;

Best Local Similarity 100.0%; Pred. No. 1e-263; Mismatches 0; Indels 0; Gaps 0;

Matches 986; Conservative 0; MisMatches 0; Del 0; Insert 0;

Qy 1 ATGAGACATATTATCTGCCACGGAGCTGTATTACCGAAGAAATGCCGCCAGCTTTC 60

Db 10 ATGAGACATATTATCTGCCACGGAGCTGTATTACCGAAGAAATGCCGCCAGCTTTC 69

Qy 61 GACCACTGATGAGAGGAGCTGGTGAATCTCCACTCCAGGATTTGACCA 120

Db 70 GACCACTGATGAGAGGAGCTGGTGAATCTCCACTCCAGGATTTGACCA 129

Qy 121 CCTACCCCTCGCGAACAGTGATGATTGACCG3CCCAGATCCACAGGAG 180

Db 130 CCTACCCCTCGCGAACAGTGATGATTGACCG3CCCAGATCCACAGGAG 189

Qy 181 GGGGTTTCGCGAGTTTCCGACTCTGTGATGTTGAGGGCGAGAAGGATTGACTA 240

Db 190 GGGGTTTCGCGAGATTCTCCGACTCTGTGATGTTGAGGGCGAGAAGGATTGACTA 249

Qy 241 CTCACTTTGCCGCGCGCGCGGTTCTCGCGAGGCCCTACCTTCCCGCAGCCGAG 300

Db 250 CTCACTTTGCCGCGCGCGGTTCTCGCGAGGCCCTACCTTCCCGCAGCCGAG 309

Qy 301 CAGCCGAGCGAGAGCCCTGGCTCGGTTCTATGCCAACCTGTACGGAGGTGTC 360

Db 310 CAGCCGAGCGAGAGCCCTGGCTCGGTTCTATGCCAACCTGTACGGAGGTGTC 369

Qy 361 GATCTTACCTGCCACGGGCTGGCTTGACCCAGCTGACGGAGGTGAGAGGTGAG 420

Db 370 GATCTTACCTGCCACGGGCTGGCTTGACCCAGCTGACGGAGGTGAGAGGTGAG 429

Qy 421 GAGTTGTTGTTAGATGATGTTGAGCACCCGGCAGGGTGCAGCTCTCATATCAC 480

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 Qy 481 CGAGGAGATACCGGGGCCAACATATTATGTTCTGCCTTGTATGAGAACCTGGC 540  
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 Qy 541 ATGTTGCTAAGTAGTGAATTATGGCAGCTGGTAACTGGTGTGTTGGTGGG 600  
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 Db 670 TTAAAGGTCCTGTGTTGAACTGGCTTGTTAAGAATTGGTGTGAAATT 729  
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 Qy 781 CTCAGAGATGCAATAGTAGTGAATCTGACTCGGCTCTAACACCTCTG 840  
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 Qy 841 AGATACACCCGGTGGTCCCGCTGTGCCCATTAACCACTGGTGGGG 900  
 Db 850 AGATACACCCGGTGGTCCCGCTGTGCCCATTAACCACTGGTGGGG 909  
 Qy 901 GTGCCCCAGGCTTGGATGTTGAGGACTCTCTTAAGGAGCTGGCAACCTTGACT 960  
 Db 910 GTGCCCCAGGCTTGGATGTTGAGGACTCTCTTAAGGAGCTGGCAACCTTGACT 969  
 Qy 961 TAGCTCTAAAGCCCCAGCCATAA 986  
 Db 970 TAGCTCTAAAGCCCCAGCCATAA 995

RESULT 5

LOCUS 120734 1000 bp DNA linear PAT 07-OCT-1996  
 DEFINITION Sequence 1 from patent US 5516631.  
 ACCESSION 120734  
 VERSION 1 GI:1601089  
 KEYWORDS SOURCE  
 ORGANISM Unknown.

REFERENCE 1 (bases 1 to 1000)  
 AUTHORS Frisch,S.M.  
 TITLE Method of inhibiting replication of hyperproliferative cells  
 JOURNAL Patent: US 5516631-A 11-14-MAY-1996;  
 FEATURES Source  
 /organism="unknown"  
 /mol\_type="unassigned DNA"

ORIGIN

Query Match 100%; Score 986; DB 6; Length 1000;  
 Best Local Similarity 100%; Pred. No. 1e-263; P. 0;  
 Matches 986; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGAGACATATTCGCCACGGAGGTATACCGAGAGATGGCGCGCTTGTCTTG 60  
 Db 10 ATGAGACATATTCGCCACGGAGGTATACCGAGAGATGGCGCGCTTGTCTTG 69  
 Qy 61 GACCACTGATCGAGAGGTATGGCTGATTCACCTCTAGCCATTGACCA 120  
 Db 70 GACCACTGATCGAGAGGTATGGCTGATTCACCTCTAGCCATTGACCA 129  
 Qy 121 CCTACCCCTCACGAACTGTATGATTAGCGTGACGGACCCCGAAGATCCCACGAGGAG 180

RESULT 6

LOCUS 120735 1000 bp DNA linear PAT 07-OCT-1996  
 DEFINITION Sequence 3 from patent US 5516631.  
 ACCESSION 120735  
 VERSION 1 GI:1601090  
 KEYWORDS SOURCE  
 ORGANISM Unknown.

REFERENCE 1 (bases 1 to 1000)  
 AUTHORS Frisch,S.M.  
 TITLE Method of inhibiting replication of hyperproliferative cells

Db 130 CCTACCCCTCACGAACTGTATGATTAGCGTGACGGACCCCGAAGATCCCACGAGGAG 189  
 Qy 181 GCGGTTGCGAGATTTCCGACMTCTGTATGTTGGCGCTCAGGAAAGGGATTACTA 240  
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 Qy 241 CTCACTTTCGGCGCGCCGGTCTGGAGGCGGCCTACCTTCCGGCGCCGG 300  
 Db 250 CTCACTTTCGGCGCGCCGGTCTGGAGGCGGCCTACCTTCCGGCGCCGG 309  
 Qy 301 CAGCCGAGGAGGCTTGGTGGTTATGCCAACCTGTACGGAGGTGATC 360  
 Db 310 CAGCCGAGGAGGCTTGGTGGTTATGCCAACCTGTACGGAGGTGATC 369  
 Db 370 GATCTTACCTCCAGAGTGGCTTCCACACTCTG 420  
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 Db 430 GAGTTGTTAGATTGAGACCCGGGAGCGGTCTTGTGAGCTGACGGGGTGG 489  
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 Db 490 CGGAGGAAATGGGGACCCAGATTAATGTTGCTATGAGCTGGGG 549  
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 Db 730 GACCTACCCGGCTTAATGGGCCCTCATCTGAGCGCCGACATCACCTGT 789  
 Qy 781 CTAGAGATGCAATAGTAGGATAGCTGTGACTCCGTCCTACACCTCTG 840  
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 Qy 841 AGATACACCCGGTGGTCCCGCTGTGCCCATTAACCACTGGTGGGG 900  
 Db 850 AGATACACCCGGTGGTCCCGCTGTGCCCATTAACCACTGGTGGGG 909  
 Qy 901 GTGCCCCAGGCTTGGATGTTGAGGACTCTCTTAAGGAGCTGGCAACCTTGACT 960  
 Db 910 GTGCCCCAGGCTTGGATGTTGAGGACTCTCTTAAGGAGCTGGCAACCTTGACT 969  
 Qy 961 TAGCTCTAAAGCCCCAGCCATAA 986  
 Db 970 TAGCTCTAAAGCCCCAGCCATAA 995

JOURNAL FEATURES source	Patient: US 551631-A 3 14-MAY-1996; Location/Qualifiers 1. .0000 /organism="unknown" /mol_type="unassigned DNA"	ORIGIN
Query Match Best Local Similarity Matches	100.0%; Score 986; DB 6; Length 1000; 100.0%; Pred. No. 1e-263; 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 ATGAGACATATACTGCCACGGAGTTACCGAAGAATGGCGCGACTTTC 60	RESULT 7
Db	10 ATGAGACATATACTGCCACGGAGTTACCGAAGAATGGCGCGACTTTC 69	AR304631 AR304631 1 from patent US 6544955.
QY	61 GACCACTGATCGAGAGGTAATGGCTGATACTTCCACCTCTAGCATTGACCA 120	DEFINITION Sequence 1 from patent US 6544955.
Db	70 GACCACTGATCGAGAGGTAATGGCTGATACTTCCACCTCTAGCATTGACCA 129	ACCESSION AR304631.1. GI:31693815
QY	121 CTPACCCCTCACTGAACTGTGTTAGCTGAGCTGATACCTCCACCTCTAGCATTGACCA 180	VERSION AR304631.1. GI:31693815
Db	130 CTACCCCTCACTGAACTGTGTTAGCTGAGCTGATACCTCCACCTCTAGCATTGACCA 189	KEYWORD SOURCE Unknown.
QY	181 GCGGTTTCCAGATTTCGCACTCTGAACTGTGTTGGGGTCAAGGAGGTTGACCA 240	ORGANISM Unclassified.
Db	190 GCGGTTTCCAGATTTCGCACTCTGAACTGTGTTGGGGTCAAGGAGGTTGACCA 249	REFERENCE Frisch,S.M.
QY	241 CTCACTTTCGCCGCCGCCGGTCTCGGGAGCGCTCCATTTCGGCGCCCG 300	AUTHORS Method of sensitizing tumor cells with adenovirus E1A
Db	250 CTCACTTTCGCCGCCGCCGGTCTCGGGAGCGCTCCATTTCGGCGCCCG 309	JOURNAL Patent: US 6544955-A 1 08-APR-2003;
QY	301 CASCGGGAGAGAGAGCTTGCGCCGGTTATGCCAACCTTGTACCGAGGTGATC 360	FEATURES Location/Qualifiers
Db	310 CAGCGGGAGAGAGAGCTTGCGCCGGTTATGCCAACCTTGTACCGAGGTGATC 369	source 1. .1000
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Db	370 GATCTTACCTGCCAGGGCTGGCTTCCACCCAGTGAAGCAAGGAGGTGAG 429	/mol_type="mRNA"
QY	421 GAGTTGTTGTTAGATTGAGCACCGGGCACGGTGCAGGTCTGCTATTAC 480	RESULT 7
Db	430 GAGTTGTTGTTAGATTGAGCACCGGGCACGGTGCAGGTCTGCTATTAC 489	AR304631 AR304631 1 from patent US 6544955.
QY	481 CGGGAGAACTGGGGGACCCAGATTATGTTGTTGCTATAGGAGCTGCG 540	DEFINITION Sequence 1 from patent US 6544955.
Db	490 CGGGAGAACTGGGGGACCCAGATTATGTTGTTGCTATAGGAGCTGCG 549	ACCESSION AR304631.1. GI:31693815
QY	541 ATGTTGTCACAGTAAGTCAAATTATGGCGACTGTTAGTGGTTGGTG 600	VERSION AR304631.1. GI:31693815
Db	550 ATGTTGTCACAGTAAGTCAAATTATGGCGACTGTTAGTGGTTGGTG 609	KEYWORD SOURCE Unknown.
QY	601 TGGTAATTTTTAATTTCAGTTTGCTGTTAAAGATTGTTATGTTGATT 660	ORGANISM Unclassified.
Db	610 TGGTAATTTTTAATTTCAGTTTGCTGTTAAAGATTGTTATGTTGATT 669	REFERENCE Frisch,S.M.
QY	661 TTAAAGCTCTGCTGAACTTGAGCTGAGCCCGAGCCAGACGGGCTGAA 720	AUTHORS Method of sensitizing tumor cells with adenovirus E1A
Db	670 TTAAAGCTCTGCTGAACTTGAGCTGAGCCCGAGCCAGACGGGCTGAA 729	JOURNAL Patent: US 6544955-A 1 08-APR-2003;
QY	721 GACCTACCCCGCTCTAAATGGCGCTCTATCTGAGAGCGCCGACATCACTGTT 780	FEATURES Location/Qualifiers
Db	730 GACCTACCCCGCTCTAAATGGCGCTCTATCTGAGAGCGCCGACATCACTGTT 789	source 1. .1000
QY	781 CTAGAGAACTGAACTGTTAGCTGACTCCGCTCTAACACACCTCTCG 840	/organism="unknown"
Db	790 CTAGAGAACTGAACTGTTAGCTGACTCCGCTCTAACACACCTCTCG 849	/mol_type="mRNA"
QY	841 AGATACACCGGGTGTCCCTACCATAACAGTGGCTGAGCTGGTGG 900	RESULT 7
Db	850 AGATACACCGGGTGTCCCTACCATAACAGTGGCTGAGCTGGTGG 909	AR304631 AR304631 1 from patent US 6544955.
QY	901 GTGCCGAGGTGGGATGATCGAGGACTGCTAACGGGCTGGCAACTTGGCT 960	DEFINITION Sequence 1 from patent US 6544955.
Db	910 GTGCCGAGGTGGGATGATCGAGGACTGCTAACGGGCTGGCAACTTGGCT 969	ACCESSION AR304631.1. GI:31693815
QY	961 TCAGCTTAAGGCCAGGCCATAA 986	VERSION AR304631.1. GI:31693815
Db	970 TCACTCTAACGCCAGGCCATAA 995	KEYWORD SOURCE Unknown.
QY	541 ATGTTGTCACAGTAAGTCAAATTATGGCGACTGTTAGTGGTTGGTG 600	ORGANISM Unclassified.
Db	550 ATGTTGTCACAGTAAGTCAAATTATGGCGACTGTTAGTGGTTGGTG 609	REFERENCE Frisch,S.M.
QY	601 TGGTAATTTTTAATTTCAGTTTGCTGTTAAAGATTGTTATGTTGATT 660	AUTHORS Method of sensitizing tumor cells with adenovirus E1A

RESULT 8

Db	610	TGTTAATTCTTAAATTACAGTTGGTTAAGAATTGTGATT	669	Db	310	CAGCGGAGAGAGGCCTGGTCGGTTCTATGCCAACCTGTACCGGAGTGATC
Qy	661	TTTAAGGCTCTGCTGAGCCCTAGCCCTAGCCGAGAACGGAGCTGCAA	720	Qy	361	GATCTTACCTCCAGAGGGTGGCTTCACCCAGTGACAGGAGGTGAG
Db	670	TTTAAGGCTCTGCTGAGCCCTAGCCGAGAACGGAGCTGCAA	729	Db	370	GATCTTACCTCCAGAGGGTGGCTTCACCCAGTGACAGGAGGTGAG
Qy	721	GACTACCGCCCTAAATGGCGCTGCTTCAGAGCCGACATCACCGTGT	780	Qy	421	GAGTTGTTAGATTGAGGACCCGGAGGGTGGCTTCACCCAGTGACAGGAGGTGAG
Db	730	GACTACCGCCCTAAATGGCGCTGCTTCAGAGCCGACATCACCGTGT	789	Db	430	GATCTTACCTCCAGAGGGTGGCTTCACCCAGTGACAGGAGGTGAG
Qy	781	CTAGAGATGCAATAGTAGTACCGATACTGTGACTCGGTCTTCAACAGCTCTG	840	Qy	481	CGGAGGATGGGAGCCAGATTTATGTTGCTGTTGCTATATGAGGACCTGTGAG
Db	790	CTAGAGATGCAATAGTAGTACCGATACTGTGACTCGGTCTTCAACAGCTCTG	849	Db	490	CGGAGGATGGGAGCCAGATTTATGTTGCTGTTGCTATATGAGGACCTGTGAG
Qy	841	AGATACACCGGTTGGCTCGCCATTAAACAGTGGCGTGGAGTTGGCG	900	Qy	541	ATGTTGTCAGAGTGAATTGAGGACCCGGAGGGTGGCTTCACCCAGTGACAGGAGGTGAG
Db	850	AGATACACCGGTTGGCTCGCCATTAAACAGTGGCGTGGAGTTGGCG	909	Db	550	ATGTTGTCAGAGTGAATTGAGGACCCGGAGGGTGGCTTCACCCAGTGACAGGAGGTGAG
Qy	901	GTGCCAGCTGTGAATGTATGAGGACTGTGTTAACGAGCTGGCAACTTGGACT	960	Qy	601	TGTTAATTCTTAAATTACAGTTGGCAGTGGTATAGAGTGGGGTTGGC
Db	910	GTGCCAGCTGTGAATGTATGAGGACTGTGTTAACGAGCTGGCAACTTGGACT	969	Db	610	TGTTAATTCTTAAATTACAGTTGGCAGTGGTATAGAGTGGGGTTGGC
Qy	961	TGAGCTTAACCCCCAGGCCATAA	986	Qy	661	TITTAAGGCTGCTGCTGAAATTGAGGCTGAGCTGAGCCGAGACCGAGCTGCAA
Db	970	TGAGCTTAACCCCCAGGCCATAA	995	Db	670	TITTAAGGCTGCTGCTGAAATTGAGGCTGAGCTGAGCCGAGACCGAGCTGCAA

RESULT 9

Db	AY147066	ATGAGACATATTCTGCAAGGAGGTATTACCGAGAAATGGCCGCACTTTG	60	Db	781	CTAGAGATGCAATAGTAGTACCGATACTGTGACTCGGTCTTCAACACCTCTG
Qy	1	ATGAGACATATTCTGCAAGGAGGTATTACCGAGAAATGGCCGCACTTTG	60	Qy	790	CTAGAGATGCAATAGTAGTACCGATACTGTGACTCGGTCTTCAACACCTCTG
Db	10	ATGAGACATATTCTGCAAGGAGGTATTACCGAGAAATGGCCGCACTTTG	69	Qy	841	AGATACACCGGTTGGCTCCCGTGTSCCCATTAAACAGTGGCGTGGAGTTGGCG
Qy	61	GACCACTGATGAGGACTCTGGTAACTCCACCTAGCATTTGACCA	120	Db	850	AGATACACCGGTTGGCTCCCGTGTSCCCATTAAACAGTGGCGTGGAGTTGGCG
Db	70	GACCACTGATGAGGACTCTGGTAACTCCACCTAGCATTTGACCA	129	Qy	901	GTGCCAGCTGTGAATGTATGAGGACTGTGTTAACGAGCTGGCAACTTGGACT
Qy	121	CCTACCTTCACGAACTGTGTTAACGAGCTGGCCCAAGATGCCAGAGGAG	180	Db	910	GTGCCAGCTGTGAATGTATGAGGACTGTGTTAACGAGCTGGCAACTTGGACT
Db	130	CCTACCTTCACGAACTGTGTTAACGAGCTGGCCCAAGATGCCAGAGGAG	189	Qy	961	TGAGCTTAACCCCCAGGCCATAA
Qy	181	GCGTTTCCAGATTTCGGACTCTGATGTTAGCTGAGGAGGAGGTGACTTA	240	Db	970	TGAGCTTAACCCCCAGGCCATAA
Db	190	GCGTTTCCAGATTTCGGACTCTGATGTTAGCTGAGGAGGAGGTGACTTA	249			
Qy	241	CTCACTTTCGGCGGGCGGTTCTCGGAGCGCTCACCTTCGGGGCGGAG	300			
Db	250	CTCACTTTCGGCGGGCGGTTCTCGGAGCGCTCACCTTCGGGGCGGAG	309			
Qy	301	CAGCGGAGAGAGGCTTGGCGGTTCTATGCCAACCTTGACCGGGGGATC	360			

ORIGIN

Query Match: 100.0%; Score: 986; DB: 6; Length: 1000;

Best Local Similarity: 100.0%; Pred. No.: 1e-263; Length: 1000;

Matches: 986; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

DEFINITION Sequence 3 from patent US 6544955.

ACCESSION AR304632

VERSION AR304632.1

KEYWORDS JOURNAL

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 1000)

AUTHORS Frisch, S.M.

TITLE Method of sensitizing tumor cells with adenovirus E1A

FEATURES Patent: US 6544955-A 3 APR-2003;

LOCATION/Qualifiers 1..1000

Source /organism="unknown," /mol\_type="mRNA"

RESULT 9

Db	AY147066	ATGAGACATATTCTGCAAGGAGGTATTACCGAGAAATGGCCGCACTTTG	60	Db	781	CTAGAGATGCAATAGTAGTACCGATACTGTGACTCGGTCTTCAACACCTCTG
Qy	1	ATGAGACATATTCTGCAAGGAGGTATTACCGAGAAATGGCCGCACTTTG	60	Qy	790	CTAGAGATGCAATAGTAGTACCGATACTGTGACTCGGTCTTCAACACCTCTG
Db	10	ATGAGACATATTCTGCAAGGAGGTATTACCGAGAAATGGCCGCACTTTG	69	Qy	841	AGATACACCGGTTGGCTCCCGTGTSCCCATTAAACAGTGGCGTGGAGTTGGCG
Qy	61	GACCACTGATGAGGACTCTGGTAACTCCACCTAGCATTTGACCA	120	Db	850	AGATACACCGGTTGGCTCCCGTGTSCCCATTAAACAGTGGCGTGGAGTTGGCG
Db	70	GACCACTGATGAGGACTCTGGTAACTCCACCTAGCATTTGACCA	129	Qy	901	GTGCCAGCTGTGAATGTATGAGGACTGTGTTAACGAGCTGGCAACTTGGACT
Qy	121	CCTACCTTCACGAACTGTGTTAACGAGCTGGCCCAAGATGCCAGAGGAG	180	Db	910	GTGCCAGCTGTGAATGTATGAGGACTGTGTTAACGAGCTGGCAACTTGGACT
Db	130	CCTACCTTCACGAACTGTGTTAACGAGCTGGCCCAAGATGCCAGAGGAG	189	Qy	961	TGAGCTTAACCCCCAGGCCATAA
Qy	181	GCGTTTCCAGATTTCGGACTCTGATGTTAGCTGAGGAGGAGGTGACTTA	240	Db	970	TGAGCTTAACCCCCAGGCCATAA
Db	190	GCGTTTCCAGATTTCGGACTCTGATGTTAGCTGAGGAGGAGGTGACTTA	249			
Qy	241	CTCACTTTCGGCGGGCGGTTCTCGGAGCGCTCACCTTCGGGGCGGAG	300			
Db	250	CTCACTTTCGGCGGGCGGTTCTCGGAGCGCTCACCTTCGGGGCGGAG	309			
Qy	301	CAGCGGAGAGAGGCTTGGCGGTTCTATGCCAACCTTGACCGGGGGATC	360			

ORIGIN

Query Match: 100.0%; Score: 986; DB: 6; Length: 1000;

Best Local Similarity: 100.0%; Pred. No.: 1e-263; Length: 1000;

Matches: 986; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

DEFINITION Human adenovirus type 5 E1A protein gene, complete cds.

ACCESSION AY147066

VERSION AY147066.1

KEYWORDS JOURNAL

SOURCE Human adenovirus type 5

ORGANISM Human adenovirus type 5

REFERENCE 1 (bases 1 to 1055)

AUTHORS Li,L., Wang,Z., Su,M., Yu,W. and Ma,Y.

TITLE Direct Submission

JOURNAL Submitted (03-SEP-2002) Institute of Orthopaedics, Xijing Hospital, 17# Changle West Road, Xi'an, Shaanxi 710032, P.R. China

FEATURES source

1..1055

/organism="Human adenovirus type 5"

/mol\_type="genomic DNA"

/ab\_xref="taxon:28285"

j\_15(44..595,713..1029)

codon\_start=1

/product="E1A protein"

/protein\_id="XAN80102.1"

/db\_xref="GI:22947856"

/translation="MRHICHGIVTEEMASILQLEBVLADNLPPSPHRPPLH

ELYVLDVTAPEDPNEAVSQIFDSVMAVQEGIDLJTFPPARGSPPEPHISRQPESP  
BORAIGPYPSMPNIVPEVLDLTCHEAGRFPSDDEBEEFVUDYVERPHGCRSCHH  
RNRVGGDPDTMCSLQYRNGMFNSPSPSERBPPPEPARPTRRXMAPRLIPT  
SPVSRRECINSTDSDGSNTPPEIHPVPLCPKIPVAVRUGGRQAVECIEDLINEP  
GQPDLSCKRPRP'

## ORIGIN

Query Match 100.0% Score 986; DB 14; Length 1055;  
Best Local Similarity 100.0%; Pred. No. 1e-263; Mismatches 0; Indels 0; Gaps 0;  
Matches 986; Conservative 0;

1 ATGAGACATATTATCGCCAGGGCTTATTACCGAAGAAATGCCGCCAGTTTG 60  
44 ATGAGACATATTATCGCCAGGGCTTATTACCGAAGAAATGCCGCCAGTTTG 103

61 GACCACTGATCGAGAGGACTCTGGTGTATACCTCCACCCCTAACCGAAGAAATGCCGCCAGTTTG 120  
104 GACCACTGATCGAGAGGACTCTGGTGTATACCTCCACCCCTAACCGAAGAAATGCCGCCAGTTTG 163

121 CCTACCCCTCCGAACCTGATCGAGAGGACTCTGGTGTATACCTCCACCCCTAACCGAAGAAATGCCGCCAGTTTG 180  
164 OCTACCCCTCCGAACCTGATCGAGAGGACTCTGGTGTATACCTCCACCCCTAACCGAAGAAATGCCGCCAGTTTG 223

181 GCGGTTTCGAGATTTCCGACTCTGTAATGTTGGCAGCTGAGAGATCCCACAGGAG 240  
224 CGGGTTTCGAGATTTCCGACTCTGTAATGTTGGCAGCTGAGAGATCCCACAGGAG 283

241 CTCACTTTCGCCCGGCCGGTTCTCGGAGCCCTCACCTTCCCGAGCCCGAG 300  
284 CTCACTTTCGCCCGGCCGGTTCTCGGAGCCCTCACCTTCCCGAGCCCGAG 343

301 CAGCCGAGGAGAGACCTGGTCGGTTCTATGCCAACCTGTACGGAGGTGTC 360  
344 CAGCCGAGGAGAGACCTGGTCGGTTCTATGCCAACCTGTACGGAGGTGTC 403

361 GATCTTACCTCCACAGGGCTGGCTTCCACCCACTGACCAAGGAGATGGAG 420  
404 GATCTTACCTCCACAGGGCTGGCTTCCACCCACTGACCAAGGAGATGGAG 463

421 GAGTTGCTCTAGATATGAGACCCGGACGGTTCAGCTTCCACCCACTGACCAAGGAGATGGAG 480  
464 GAGTTGCTCTAGATATGAGACCCGGACGGTTCAGCTTCCACCCACTGACCAAGGAGATGGAG 523

481 CGGAGGATAGGGGACCGATATATGTTGCTCTGCTATAGACGACCTGTGC 540  
524 CGGAGGATAAGGGGACCGATATATGTTGCTCTGCTATAGACGACCTGTGC 583

541 ATGTTGCTCTAGTAGTGTGAATTATGGCGAGTGGTGTATAGTTGGGTGTTGG 600  
584 ATGTTGCTCTAGTAGTGTGAATTATGGCGAGTGGTGTATAGTTGGGTGTTGG 643

601 TGGTAATTTTTAATTTCAGTTGTTGTTGAAGAAATTGGCGAGTGGTGTATAGTTGGGTGTTGG 660  
644 TGGTAATTTTTAATTTCAGTTGTTGTTGAAGAAATTGGCGAGTGGTGTATAGTTGGGTGTTGG 703

661 TTAAAGGCTGTCTGACTGAGCTGAGCCGAGCAGACGGCTGCAA 720  
704 TTAAAGGCTGTCTGACTGAGCTGAGCCGAGCAGACGGCTGCAA 763

721 GACCTTACCGCGCTCTAAATGGCCCTGTCTGATCTGGAGAGGCCACATACCTGTT 780  
764 GACCTTACCGCGCTCTAAATGGCCCTGTCTGAGCTGCCGACGACTACCTGTT 823

781 CTAGAGATGAACTAGTAGTGGATAGCTGACTCCGGGCTCTAAACACCTCTG 840  
824 CTAGAGATGAACTAGTAGTGGATAGCTGACTCCGGGCTCTAAACACCTCTG 883

841 AGATACACCGCTGGCCGCTGSCCCATTAACCACTGCTGAGAGTTGGC 900  
884 AGATACACCGCTGGCCGCTGSCCCATTAACCACTGCTGAGAGTTGGC 943

901 GTGCCAGGCTGGATGTTGAGACTCTAACAGACCTGGCAACTTGACT 960

Db 944 GTCGCCAGGCTGTGAAATGTTACGGAGCTGCTTAAGGAGCTGGGCAACCTTGGACT 1003  
Db 951 TGAGCTGAAACCCCGAGGCAATA 986  
Qy 1004 TGAGCTGAAACCCCGAGGCAATA 1029

## RESULT 10

AX817767 AX817767 Sequence 3 from Patent WO20067861. DNA linear PAT 10-DEC-2003

DEFINITION AX817767.1 GI:39722964

VERSION AX817767.1

KEYWORDS

SOURCE Synthetic construct

ORGANISM Other sequences

REFERENCE 1

AUTHORS Oncolytic adenoviral vectors

TITLE Patent: WO 02067861-A 3 06-SEP-2002;

JOURNAL Location/Qualifiers 1..1802

FEATURES misc\_feature

Source /note="Fig. 3 A-Left end of ArgPae2FF sequence"

ORIGIN

Query Match 100.0% Score 986; DB 6; Length 1802;

Best Local Similarity 100.0%; Pred. No. 1.e-243; Mismatches 0; Indels 0; Gaps 0;

Matches 986; Conservative 0;

1 ATGAGACATATTATCGCCACGGAGGTATTACCGAAGAAATGCCGCCAGTTTG 60  
582 ATGAGACATATTATCGCCACGGAGGTATTACCGAAGAAATGCCGCCAGTTTG 641

61 GACCACTGATCGAGAGACTACGGCTATACCTCCACCTCTASCATTTGACCA 120  
642 GACCACTGATCGAGAGACTACGGCTATACCTCCACCTCTASCATTTGACCA 701

121 CCTACCCCTCACGACTTATGATTAGCTGAGCTGAGCCCGAGATCCACAGGAG 180  
702 CCTACCCCTCACGACTTATGATTAGCTGAGCTGAGCCCGAGATCCACAGGAG 761

181 GCGGTTTCGAGATTTCGGACTCTGTTATGTTGGGTGAGGAAGGGATTGACTTA 240  
762 GCGGTTTCGAGATTTCGGACTCTGTTATGTTGGGTGAGGAAGGGATTGACTTA 821

241 CTCACTTTCGCCAGATTTCGGACTCTGTTATGTTGGGTGAGGAAGGGATTGACTTA 300  
822 CTCACTTTCGCCAGATTTCGGACTCTGTTATGTTGGGTGAGGAAGGGATTGACTTA 881

301 CAGCCGAGGAGCTGAGCTGAGCCGCTTATGCCAACCTGTACGGAGGTGTC 360  
882 CAGCCGAGGAGCTGAGCTGAGCCGCTTATGCCAACCTGTACGGAGGTGTC 941

361 GACCTTACCGCGAGGAGCTGAGCTGAGCCGCTTACCCGGTGGAGAGGAGGTG 420  
942 GACCTTACCGCGAGGAGCTGAGCTGAGCCGCTTACCCGGTGGAGAGGAGGTG 1001

421 GAGTTGCTCTAGTAGTGTGAATTATGGCGAGTGGTGTATAGTTGGGTGTTGG 480  
1002 GAGTTGCTCTAGTAGTGTGAATTATGGCGAGTGGTGTATAGTTGGGTGTTGG 1051

481 CGGAGGATACGGGAGCCAGATTATGTTGCTCTGCTATAGACGCTGTGC 540  
1062 CGGAGGATACGGGAGCCAGATTATGTTGCTCTGCTATAGACGCTGTGC 1121

541 ATGTTGCTCTAGTAGTGTGAATTATGGCGAGTGGTGTATAGTTGGGTGTTGG 600

QY	1122	ATGTTGTCTACAGAAGTGAANTATGGCAGTGGGTGATGAGTGCGTGGTTGGTG	1181
QY	601	TGGTATTTCCTTAATTTCAGTTGCGGTTAACGATTGATTTGATGTTGATT	660
Db	1182	TGTTAAAGTTCCTGTCGTCGAACTGAGCTGAGCCGAGCGAGCCCTGC	1241
QY	661	TTTAAAGGCTCTGTCGTCGAACTGAGCTGAGCCGAGCGAGCCCTGC	720
Db	1242	TTTAAAGTTCCTGTCGTCGAACTGAGCTGAGCCGAGCGAGCCCTGC	1301
QY	721	GACCTACCCCGCTCTAAATGGGCCCTGCTACGAGACGCCGACATCCTG	780
Db	1362	CTAGAATGCAATGAGTAGCTAGGATAGCTGACTACACCTCTG	1421
QY	841	AGATCACCGGTTGCGCTAAACCACTGCGGAGAGTGGTGGCG	900
Db	1422	AGATACACCGGTTGCTCCCGCTGAGCCCATTAACCACTGCGTGGCG	1481
QY	901	GTGCCGAGGTGTTGAAATGATCGAGCTGCTAACGAGCTTGGACT	960
Db	1482	GTGCCGAGGTGTTGAAATGATCGAGCTGCTAACGAGCTTGGACT	1541
QY	961	TGAGGTGTAACGCCAGGCCATAA	986
Db	1542	TGAGGTGTAACGCCAGGCCATAA	1567
RESULT	11		
LOCUS	AX838364	Sequence 3 from Patent WO20068627.	1802 bp
DEFINITION			DNA
ACCESSION	AX838364		linear
VERSION	AX838364.1	GI:39922045	PAT 15-DBC-2003
SOURCE		synthetic construct	
ORGANISM		synthetic construct	
REFERENCE	1	other sequences; artificial sequences.	
AUTHORS		vector constructs	
JOURNAL		Patent: WO 02068627-A, 3 06-SEP-2002;	
FEATURES	source	Location/Qualifiers	
	1.	.1802	
		/organism="synthetic construct"	
		/mol_type="unassigned DNA"	
		/db_xref="taxon:31630"	
		/note="viral vector construct"	
	1.	.1802	
		/note="Fig. 3 A - left end of Ar6PAE2FF sequence"	
ORIGIN			
Query Match	100.0%	Score 986; DB 6;	Length 1802;
Best Local Similarity	100.0%	Pred. No. 1..le-263;	
Matches	986;	Conservative 0;	Mismatches 0;
		Indels 0;	Gaps 0;
QY	1	ATGAGACATATTCGCCAGGAGCTGTTAACCGAAGATGGCCCGCA	60
Db	582	ATGAGACATATTCGCCAGGAGCTGTTAACCGAAGATGGCCCGCA	641
QY	61	GACCGCTGATGAGAGGACTGCTGATAATCTCCACCTCTAGCA	120
Db	642	GACCGCTGATGAGAGGACTGCTGATAATCTCCACCTCTAGCA	701
QY	121	CCTACCTTCAGAGCTGATGAGCTGAGCCGCCAGATCCAAGGAG	180
Db	702	CCTACCTTCAGAGCTGATGAGCTGAGCCGCCAGATCCAAGGAG	761
QY	181	GGGGTTCGAGATTTCCGACCTCTGAAATGTCGGGTGAGGAAGGATGACTA	240
RESULT	12		
LOCUS	AX770195	Sequence 6 from Patent WO03035883.	3408 bp
DEFINITION			DNA
ACCESSION	AX770195		linear
VERSION	AX770195.1	GI:32437735	PAT 02-JUL-2003
KEYWORDS			
SOURCE		Human adenovirus type 5	
ORGANISM		Human adenovirus	
REFERENCE	1	Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus.	
AUTHORS		Hochberg,A. and Ayesh,S.	
JOURNAL		Methods and compositions for inducing tumor-specific cytotoxicity	
FEATURES	source	Location/Qualifiers	
	1.	.3408	

ORIGIN

Query Match 100.0%; Score 986; DB 6; Length 3408;  
Best Local Similarity 100.0%; Pred. No. 1. 3e-253; Mismatches 0; Indels 0; Gaps 0;  
Matches 986; Conservative 0;

QY 1 ATGAGACATATATCGCCACGGAGCTGTATTACGAAGAAATGCCGCCAGCTTTC 60  
Db 44 ATGAGACATATATCGCCACGGAGCTGTATTACGAAGAAATGCCGCCAGCTTTC 103

QY 61 GACCAAGCTGATCGAAGAGGAGCTGCTGATTCACCGAGGTGTTAACCGAAGAA 120  
Db 104 GACCAAGCTGATCGAAGAGGAGCTGCTGATTCACCGAGGTGTTAACCGAAGAA 163

QY 121 CCTACCTTCACGAACTGCTGATAGATTAGACCTGACGCCCGCCGAAGATCCC 180  
Db 164 CCTACCTTCACGAACTGCTGATAGATTAGACCTGACGCCCGCCGAAGATCCC 223

QY 181 CGGGTTTGCAGATTTCCGACTCTGTAATGTTAGCCAGGATCCAAAGGGAGCA 240  
Db 224 CGGGTTTGCAGATTTCCGACTCTGTAATGTTAGCCAGGAGGATGACTA 283

QY 241 CCTACCTTCACGAACTGCTGATAGATTAGACCTGACGCCCGCCGAAGATCCC 300  
Db 284 CCTACCTTCACGAACTGCTGATAGATTAGACCTGACGCCCGCCGAAGATCCC 343

QY 301 CGGCCGAGCAGAGAGCCTTCTGGCTCTATGCCAAACCTTGACCGAGGTGATC 360  
Db 344 CGGCCGAGCAGAGAGCCTTCTGGCTCTATGCCAAACCTTGACCGAGGTGATC 403

QY 361 GATCTTACCTCCACGAGCTGCTGATAGATTAGACCTGACGCCCGCCGAAGATC 420  
Db 404 GATCTTACCTCCACGAGCTGCTGATAGATTAGACCTGACGCCCGCCGAAGATC 463

QY 421 GAGTTGTTGATGATTGAGCACCCCCGGACGGTCAGCTTCGATTTACCTATAC 480  
Db 464 GAGTTGTTGATGATTGAGCACCCCCGGACGGTCAGCTTCGATTTACCTATAC 523

QY 481 CGGAGGATAACGGGACCCAGATATATGTTCTGTTCTATGAGGACCTGTGC 540  
Db 524 CGGAGGATAACGGGACCCAGATATATGTTCTGTTCTATGAGGACCTGTGC 583

QY 541 ATGTTGCTCTAGTAACTGAGAAATTATGGCAGTGGTGTAGAGTGGTGTGGT 600  
Db 584 ATGTTGCTCTAGTAACTGAGAAATTATGGCAGTGGTGTAGAGTGGTGTGGT 643

QY 601 TGTAAATTCTTAACTTACAGTTGTGGTTAAAGAAATTGTGTGTGATT 660  
Db 644 TGTAAATTCTTAACTTACAGTTGTGGTTAAAGAAATTGTGTGTGATT 703

QY 661 TTAAAGGCTCTGCTGAACTGAGCTGAGCCGAGACCGAGCTGCAA 720  
Db 704 TTAAAGGCTCTGCTGAACTGAGCTGAGCCGAGACCGAGCTGCAA 763

QY 721 GACCTACCGCGCTCTAAATGGCGCTGTATCTGAGCGCCGACATCACCTGT 780  
Db 764 GACCTACCGCGCTCTAAATGGCGCTGTATCTGAGCGCCGACATCACCTGT 823

QY 781 CTAGAGATGCAATAGTAGTACCGATAGCTGACTCCGGCCTCTAACACCTCTG 840

RESULT 13 AR310582

Locus AR310582 Sequence 18 from patent US 6558948.

DEFINITION Permanent animalic cell line, its production and use for the

ACCESSION AR310582.1 GI:31703596

VERSION 1

VERSION 1 (bases 1 to 7090)

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1. Kochanek, S. and Schiedner, G.

AUTHORS TITLE

JOURNAL Patent: US 6558948-A 18-06-MAY-2003;

FEATURES Location/Qualifiers

SOURCE 1. 7090

/organism="unknown"

/mol\_type="genomic DNA"

ORIGIN

Query Match 100.0%; Score 986; DB 6; Length 7090;  
Best Local Similarity 100.0%; Pred. No. 1. 5e-263; Mismatches 0; Indels 0; Gaps 0;  
Matches 986; Conservative 0;

QY 1 ATGAGACATATATCGCCACGGAGCTGTATTACGAAGAAATGCCGCCAGCTTTC 60  
Db 288 ATGAGACATATATCGCCACGGAGCTGTATTACGAAGAAATGCCGCCAGCTTTC 2867

QY 61 GACCAAGCTGATCGAAGAGGAGCTGCTGATTCACCGAGGTGTTAACCGAAGAA 120  
Db 268 GACCAAGCTGATCGAAGAGGAGCTGCTGATTCACCGAGGTGTTAACCGAAGAA 2927

QY 121 CCTACCTTCACGAACTGCTGATAGATTAGACCTGACGCCCGCCGAAGATCCC 180  
Db 2928 CCTACCTTCACGAACTGCTGATAGATTAGACCTGACGCCCGCCGAAGATCCC 2987

QY 181 CGGGTTTGCAGATTTCCGACTCTGTAATGTTGGGGTGGAGGAGGTGACTA 240  
Db 2988 CGGGTTTGCAGATTTCCGACTCTGTAATGTTGGGGTGGAGGAGGTGACTA 3047

QY 241 CCTACCTTCACGAACTGCTGATAGATTAGACCTGACGCCCGCCGAAGATCCC 300  
Db 3048 CCTACCTTCACGAACTGCTGATAGATTAGACCTGACGCCCGCCGAAGATCCC 3107

QY 301 CGGCCGAGGAGGACCTGGTGGCGCTGTCTATGCCAAACCTGTACCGGAGGTGATC 360  
Db 3108 CGGCCGAGGAGGACCTGGTGGCGCTGTCTATGCCAAACCTGTACCGGAGGTGATC 3167

QY 361 GATCTTACCTCCACGAGCTGCTGATTCACCGAGGTGAGGAGGTGAGGAGGTGAG 420  
Db 3168 GATCTTACCTCCACGAGCTGCTGATTCACCGAGGTGAGGAGGTGAGGAGGTGAG 3227

QY 421 GAGTTGTTGATGATTGAGCACCCCCGGACGGTGGAGCTGCTGATTCACCTAC 480  
Db 3228 GAGTTGTTGATGATTGAGCACCCCCGGACGGTGGAGCTGCTGATTCACCTAC 3287

Query Match 481 CCGAGGAAATACGGGGACCCAGATAATTATGTTCTTGTGCTATATGAGCACCTGTGGC 540  
 Best Local Similarity 100.0%; Score 986; DB 6; Length 7090;  
 Matches 986; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 1 ATGAGACATATTATCACCAGAGGTATTAACCGAAGAAATGCCGGCACTTTC 60  
 Db 2808 ATGAGACATATTATCACCAGAGGTATTAACCGAAGAAATGCCGGCACTTTC 2867

Query 61 GACCGAGCTGATGAGAGGTATGGCTGATAMCTCACCCTAGCCATTGACCA 120  
 Db 2868 GACCGAGCTGATGAGAGGTATGGCTGATAMCTCACCCTAGCCATTGACCA 2927

ORIGIN

RESULT 14

AX150263 AX150263 Sequence 18 from Patent WO0136615. 7090 bp DNA linear PAT 08-JUN-2001

DEFINITION Accession AX150263.1 GI:14348283

VERSION 3648

KEYWORDS synthetic construct

SOURCE

ORGANISM

REFERENCE

AUTHORS Kochanek, S. and Schleder, G.

TITLE Permanent amniocyte cell line, the production thereof and its use for producing gene transfer vectors

JOURNAL Patent: WO 0136615-A 18 25-MAY-2001; Kochanek, Stefan (DE)

FEATURES Source

1. .:7090 /organism="synthetic construct" /mot\_type="unassigned DNA" /db\_xref="taxon:32630" /note="Plasmid STK146"

Query 481 CCGAGGAAATACGGGGACCCAGATAATTATGTTCTTGTGCTATATGAGCACCTGTGGC 540  
 Db 3288 CGAGGAAATACGGGGACCCAGATAATTATGTTCTTGTGCTATATGAGCACCTGTGGC 3347

Query 541 ATGTTTGCTACTAGTAGTGAATAATTACAGTTGGTTAAGAATTGGTTGATT 600  
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Query 601 TCGTAATTTTTTAATTTCAGTTGGTTAAGAATTGGTTGATT 660  
 Db 3408 TCGTAATTTTTTAATTTCAGTTGGTTAAGAATTGGTTGATT 3467

Query 661 TTAAAGGCTCTGTTGACTGAAATTGGCTGAGCTGAGCTGAGCTGAGCTGCAA 720  
 Db 3468 TTAAAGGCTCTGTTGACTGAAATTGGCTGAGCTGAGCTGAGCTGAGCTGCAA 3527

Query 721 GACCTACCCGGCTCTAAATTGGCTGAGCTGAGCTGAGCTGAGCTGCAA 780  
 Db 3528 GACCTACCCGGCTCTAAATTGGCTGAGCTGAGCTGAGCTGAGCTGAGCTGCAA 3647

Query 781 CTAGAGATGCAATAGTAGTAGGATAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGCAA 840  
 Db 3588 CTAGAGATGCAATAGTAGTAGGATAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGCAA 3793

Query 841 AGATAACCCGGCTGTCGCCATTAAACAGTTGGCTGAGCTGAGCTGAGCTGAGCTGCAA 900  
 Db 3648 AGATAACCCGGCTGTCGCCATTAAACAGTTGGCTGAGCTGAGCTGAGCTGAGCTGCAA 3707

Query 901 GTGCCAGGTCTGGTGAATGATAGGACTCTTAAAGGCTGGCAACCTTGACT 960  
 Db 3708 GTGCCAGGTCTGGTGAATGATAGGACTCTTAAAGGCTGGCAACCTTGACT 3767

Query 961 TCGCTTAAGGCCCCAGGCATAA 986  
 Db 3768 TCGCTTAAGGCCCCAGGCATAA 3793

Query 121 CCTACCCCTACGAACTGTATGATTAGCTGAGCCGGGGAGATCCCAACGAGGG 180  
 Db 2928 CCTACCCCTACGAACTGTATGATTAGCTGAGCCGGGGAGATCCCAACGAGGG 2987

Query 181 GCGGTTTCGCAAGATTTCGACTCTGTAATGTTGCGGTGAGAGGATGACTA 240  
 Db 2988 GCGGTTTCGCAAGATTTCGACTCTGTAATGTTGCGGTGAGAGGATGACTA 3047

Query 241 CTCACTTTCGGCGAGCGCCGGTCTCGGACCGCCCTAACCTTCCGGAGCCCG 300  
 Db 3108 CAGCGGAGAGCGCCGGTCTCGGAGCCACCTTCCGGAGCCCTAACCTTCCGGAGCCCG 3107

Query 361 GATCTTACCTGCCACGAGCTGGCTTCACCAACCTCTGACT 420  
 Db 3168 GATCTTACCTGCCACGAGCTGGCTTCACCAACCTCTGACT 3227

Query 421 GAGTTGTGTTAGTATTGGAGGACCTTACACCCCTCTG 480  
 Db 3288 GAGTTGTGTTAGTATTGGAGGACCTTACACCCCTCTG 3287

Query 481 CGCGCGAGAGGAGCTGGGCGCGGTCTAGCCAACTTGTACCGGGGTGTC 360  
 Db 3288 CGCGCGAGAGGAGCTGGGCGCGGTCTAGCCAACTTGTACCGGGGTGTC 3347

Query 541 ATGTTGTGTTAGTATTGGAGGACCTTACACCCCTCTG 600  
 Db 3348 ATGTTGTGTTAGTATTGGAGGACCTTACACCCCTCTG 3407

Query 601 TGTAATTTTTTAATTTCAGTTGGTTAAGAATTGGTTGATT 660  
 Db 3408 TGTAATTTTTTAATTTCAGTTGGTTAAGAATTGGTTGATT 3467

Query 661 TTAAAGGCTCTGTTGACTGAAATTGGCTGAGCTGAGCTGAGCTGCAA 720  
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Query 721 GACCTACCCGGCTCTAAATTGGCTGAGCTGAGCTGAGCTGAGCTGCAA 780  
 Db 3528 GACCTACCCGGCTCTAAATTGGCTGAGCTGAGCTGAGCTGAGCTGCAA 3587

Query 781 CTAGAGATGCAATAGTAGTAGGATAGCTGAGCTGAGCTGAGCTGAGCTGCAA 840  
 Db 3588 CTAGAGATGCAATAGTAGTAGGATAGCTGAGCTGAGCTGAGCTGAGCTGCAA 3647

Query 841 AGATAACCCGGCTGTCGCCATTAAACAGTTGGCTGAGCTGAGCTGAGCTGCAA 900  
 Db 3648 AGATAACCCGGCTGTCGCCATTAAACAGTTGGCTGAGCTGAGCTGAGCTGCAA 3707

Query 901 GTGCCAGGTCTGGTGAATGATAGGACTCTTAAAGGCTGGCAACCTTGACT 960  
 Db 3708 GTGCCAGGTCTGGTGAATGATAGGACTCTTAAAGGCTGGCAACCTTGACT 3767

Query 961 TCGCTTAAGGCCCCAGGCATAA 986  
 Db 3768 TCGCTTAAGGCCCCAGGCATAA 3793

RESULT 15

BDB6237 BDB6237 Sequence 17607 bp DNA linear PAT 17-JUL-2003

LOCUS BDB6237 Adenovirus vector, packaging cell line, composition and method for production and use.

DEFINITION

VERSION BDB6237 GI:33078005

KEYWORDS JP 2002534130-A141.

SOURCE

ORGANISM

REFERENCE 1 (bases 1 to 7607)

AUTHORS	Nemerow, S.R., Seggern, D.J.V., Hallenbeck, P.L., Stevenson, S.C. and Skripchenko, V.	Db
TITLE	Adenovirus vector, packaging cell line, composition and method for production and use	Qy
JOURNAL	PARENT: JP 2002534130-A 41 15-OCT-2002; NOVARTIS AG, THE SCRIPPS RESEARCH INSTITUTE	Db
COMMENT	Artificial Sequence	Qy
PN	JP 2002534130-A/41	Db
PD	15-OCT-2002	780
PF	14-JAN-1999 US 60/115520	840
PR	PI GLEN ROBERT NEMEROW, DANIEL J VON SEGBERN, PAUL L HALLENBECK, PI SUSAN C STEVENSON, YELENA SKRIPCHENKO	Db
PC	C12N15/09, A61K35/76, A61K48/00, A61P35/00, A61P43/00, 181.6	1757
PC	C12N5/10, C12Q1/68, G01N33/53, G01N33/56, C12N15/00, C12N5/00 CC	1697
PC	Description of Artificial Sequence: Plasmid d	900
FH	Location/Qualifiers	1817
Key	1. 7607 /organism='Artificial Sequence'.	901
FT	Location/Qualifiers	1877
Source	1. 7607 /organism="synthetic construct"	960
FEATURES	/mol type="genomic DNA"	961
source	/db_xref="taxon:32630"	1937
ORIGIN		1962
Query Match	Score 986; DB 6; Length 7607;	
Best Local Similarity	100.0%; Pred. No. 1. 5e-263; Mismatches 0; Indels 0; Gaps 0;	
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Qy	1 ATGAGACATATTATCTGCACGGAGGTATTACCGAAGAAATGGCCGCACTCTTTCG 60	
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Qy	61 GACCACTGATCGAGGTTACTGGCTATAATTCCACCTCTTAGCAATTGAACTTA 120	
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Qy	121 CCTACCCCTCAAGAACCTGATGATTAGACGTTAGCCTGGCCCCAGATCCAAAGGAG 180	
Db	1097 CCTACCCCTCAAGAACCTGATGATTAGACGTTAGCCTGGCCCCAGATCCAAAGGAG 1156	
Qy	181 CGGGTTTCGCAAGATTTCGCCGACTCTGTAATGTTGGGGTGCAGGAAGGGATGACTTA 240	
Db	1157 CGGGTTTCGCAAGATTTCGCCGACTCTGTAATGTTGGGGTGCAGGAAGGGATGACTTA 1216	
Qy	241 CTCACTTTCCGGGCCGCCGCTTGCGACCCGCTTACCTTTCGGGCCACCTTCCGGCAAGCCGAG 300	
Db	1217 CTCACTTTCCGGGCCGCCGCTTGCGACCCGCTTACCTTTCGGGCCACCTTCCGGCAAGCCGAG 1276	
Qy	301 CGAGGGGAGCAAGAGAGCTTGGCTCGGTTCTPATGCCAAACCTTGTACCGGAGCTGATC 360	
Db	1277 CAGCCGAGCAAGAGCTTGGCTCGGTTCTPATGCCAAACCTTGTACCGGAGCTGATC 1336	
Qy	361 GATCTTACCTGCCAACGGGCTTCCACCCAGTGAAGGAGGATGAAGGGTGTG 420	
Db	1337 GATCTTACCTGCCAACGGGCTTCCACCCAGTGAAGGAGGATGAAGGGTGTG 1396	
Qy	421 GAGTTGTGTTAGATTATGGAGCAACCCGGAACCTTGTACCGGAGCTGATC 480	
Db	1397 GAGTTGTGTTAGATTATGGAGCAACCCGGAACCTTGTACCGGAGCTGATC 1456	
Qy	481 CGAGGGAAATACGGGAAACCCGAGATAATTGTTGCTGCTGTTGCTTGTACCGGAGCTG 540	
Db	1457 CGAGGGAAATACGGGAAACCCGAGATAATTGTTGCTGCTGTTGCTTGTACCGGAGCTG 1516	
Qy	541 ATGTTGTCTACGTACTGAAATTATGGCACTGGGAGATGAGTGTGGTTGGTGG 600	
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Qy	601 TGTTAATTTTTAAAGATTTCAGTTGTTAAAGATTTCAGTTGTTAAAGATTTCAGTTGATT 660	